Acta Physiol Scand 1998, **163**, 419–421

Author index

Adner, M., Geary, G.G. & Edvinsson, L. Appearance of contractile endothelin-B receptors in rat mesenteric arterial segments following organ culture, 121
Akiyama, T. *see* Kitagawa, H.
Andersen, N.J. *see* Saetre, S.S.
Andersson, E. *see* Sand, A.
Angdin, M. *see* Settergren, G.
Arlock, P., Wohlfart, B. & Noble, M. Potentiation of the contraction following a prolonged depolarization in isolated ferret myocardium, 3
Arner, A. *see* Skogvall, S.
Astudillo, R. *see* Settergren, G.

Bányász, T. *see* Szigligeti, P.
Berg, H.E. *see* Gamrin, L.
Berthault, M.F. *see* Durussel, J.J.
Beunen, G.P. *see* Thomis, M.A.I.
Bie, P. *see* Grove, L.
Blagden, C.S. *see* Hughes, S.M.
Blimkie, C.J. *see* Thomis, M.A.I.
Blomqvist, G., Grill, V., Ingvar, M., Widén, L. & Stone-Elander, S. The effect of hyperglycaemia on regional cerebral glucose oxidation in humans studied with [1–^{11}C]-D-glucose, 403
Bogdanis, G.C., Nevill, M.E., Lakomy, H.K.A. & Boobis, L.H. Power output and muscle metabolism during and following recovery from 10 and 20 s of maximal sprint exercise in humans, 261
Boobis, L.H. *see* Bogdanis, G.C.
Boussairi, H. *see* Licker, M.
Broman, M., Källskog, Ö., Kopp, U.C. & Wolgast, M. Influence of the sympathetic nervous system on renal function during hypothermia, 241
Buckingham, M., Kelly, R., Tajbakhsh, S. & Zammit, P. The formaion and maturation of skeltal muscle in the mouse: the myosin $MLC_{1F/3F}$ gene as a molecular model, S3
Bülow, J. *see* Langberg, H.
Buonanno, A., Cheng, J., Venepally, P., Weis, J. & Calvo, S. Activity dependent regulation of muscle genes: repressive and stimulatory effects of innervation, S17

Calvo, S. *see* Buonanno, A.
Castle, A.L. *see* Yaspelkis III, B.B.
Cheng, J. *see* Buonanno, A.
Christensen, P. *see* Grove, L.
Claessens, A.L. *see* Thomis, M.A.I.
Clark, M.G. *see* Ye, J.-M.
Clausen, T & Persson, A.E.G. Jens Christian Skou awarded the Nobel prize in chemistry for the identification of the Na^+, K^+-pump, 1
Colquhoun, E.Q. *see* Ye, J.-M.
Cotter, J.D. *see* Patterson, M.J.
Cox, H.S. *see* Lambert, G.W.

De Luca, V. *see* Monda, M.
Dean, C. *see* Herbert, R.D.
Degens, H., Yu, F., Li, X. & Larsson, L. Effects of age and gender on shortening velocity and myosin isoforms in single rat muscle fibres, 33
Di Lisi, R. *see* Schiaffino, S.
Dibona, G.F. *see* Grisk, O.
Dufaux, J. *see* Durussel, J.J.
Durussel, J.J., Berthault, M.F., Guiffant, G. & Dufaux, J. Effects of red blood cell hyperaggregation on the rat microcirculation blood flow, 25
Dyhre-Poulsen, P. *see* Voigt, M.

Edvinsson, L. *see* Adner, M.
Ehrström, M., Pequignot, J., Pequignot, J.-M. & Lagercrantz, H. Cooling and asphyxia differentially affect augmented noradrenaline turnover in the brain of the externalized rat foetus, 385
Ellrich, J. & Treede, R.-D. Convergence of nociceptive and non-nociceptive input onto spinal reflex pathways to the tibialis anterior muscle in humans, 391
Esler, M.D. *see* Lambert, G.W.
Essén, P. *see* Gamrin, L.

Farrar, R.P. *see* Yaspelkis III, B.B.
Fried, G. *see* Sand, A.
Furukawa, M., Ikeda, K., Oshima, T., Suzuki, H., Yamaya, M., Sasaki, H. & Takasaka, T. A_2 adenosine receptors in Mongolian gerbil middle ear epithelium and their regulation of Cl-secretion, 103

Gamrin, L., Berg, H.E., Essén, P., Tesch, P.A., Hultman, E., Garlick, P.J., McNurlan, M.A. & Wernerman, J. The effect of unloading on protein synthesis in human skeletal muscle, 369
Gandevia, S.C. *see* Herbert, R.D.
Garlick, P.J. *see* Gamrin, L.
Gascan, H. *see* Guillet, C.
Geary, G.G. *see* Adner, M.
Gelinder, S. *see* Settergren, G.
Gonon, A. *see* Wang, Q.-D.
Gonon, A.T., Wang, Q-D., Shimizu, M. & Pernow, J. The novel nonpeptide selective endothelin A receptor antagonist LU 135 252 protects against myocardial ischaemic and reperfusion injury in the pig, 131
Grampp, W. *see* Skogvall, S.
Grill, V. *see* Blomqvist, G.
Grimaldi, A. *see* Hughes, S.M.
Grisk, O. & Dibona, G.F. Influence of arterial baroreceptors and intracerebroventricular guanabenz on synchronized renal nerve activity, 209
Grove, L., Christensen, P. & Bie, P. Effects of receptor blockade on metabolism and renal actions of vasopressin in conscious dogs, 93
Guiffant, G. *see* Durussel, J.J.
Guillet, C., Huchet-Cadiou, C., Gascan, H. & Léoty, C. Changes in CNTF receptor α expression in rat skeletal muscle during the recovery period after hindlimb suspension, 273

© 1998 Scandinavian Physiological Society

Hansen, O. Isoform of Na^+,K^+-ATPase from rumen epithelium identified and quantified by immunochemical methods, 201
Haraldsson, B. *see* Sörensson, J.
Henriksson, J. *see* Rosdahl, H.
Herbert, R.D., Dean, C. & Gandevia, S.C. Effects of real and imagined training on voluntary muscle activation during maximal isometric contractions, 361
Hirano, K. *see* Sugimoto, S.-I.
Hohn, L. *see* Licker, M.
Hohtola, E. *see* Meigal, A.Y.
Houe, T. *see* Saetre, S.S.
Huchet-Cadiou, C. *see* Guillet, C.
Hughes, S.M., Blagden, C.S., Li, X. & Grimaldi, A. The role of hedgehog proteins in vertebrate slow and fast skeletal muscle patterning, S7
Hultman, E. *see* Gamrin, L.

Iemitsu, M. *see* Miyachi, M.
Ikeda, K. *see* Furukawa, M.
Imaizumi, T. *see* Sugimoto, S.-I.
Ingvar, M. *see* Blomqvist, G.
Ivy, J.L. *see* Yaspelkis Iii, B.B.

Jennings, G.L. *see* Lambert, G.W.
Jerkovic, R. *see* Schiaffino, S.

Källskog, Ö. *see* Broman, M.
Kaye, D.M. *see* Lambert, G.W.
Kelly, R. *see* Buckingham, M.
Kitagawa, H., Akiyama, T. & Yamazaki, T. Myocardial interstitial noradrenaline monitoring during occlusion of inferior vena cava in cats, 173
Kjær, M. *see* Langberg, H.
Kopp, U.C. *see* Broman, M.
Koshelev, V.B. *see* Machkov, V.V.

Lagercrantz, H. *see* Ehrström, M.
Lakomy, H.K.A. *see* Bogdanis, G.C.
Lambert, G.W., Kaye, D.M., Thompson, J.M., Turner, A.G., Cox, H.S., Vaz, M., Jennings, G.L., Wallin, B.G. & Esler, M.D. Internal jugular venous spillover of noradrenaline and metabolites and their association with sympathetic nervous activity, 155
Langberg, H., Bülow, J. & Kjær, M. Blood flow in the peritendinous space of the human Achilles tendon during exercise, 149
Larsson, L. *see* Degens, H.
Larsson, L. The age-related motor disability: underlying mechanisms in skeletal muscle at the motor unit, cellular and molecular level, S27
Léoty, C. *see* Guillet, C.
Li, X. *see* Degens, H.
Li, X. *see* Hughes, S.M.
Licker, M., Boussairi, H., Hohn, L. & Morel, D.R. Role of nitric oxide in the regulation of regional blood flow and metabolism in anaesthetized pigs, 339
Lindberg, U. *see* Schutt, C.E.
Lindström, K. *see* Sörensson, J.
Liska, J. *see* Settergren, G.
Lømo, T. Introduction, S1
Lundberg, J.O.N. *see* Settergren, G.
Lupandin, Y.V. *see* Meigal, A.Y.

Machkov, V.V., Vlasova, M.A., Tarasova, O.S., Mikhaleva, L.M., Koshelev, V.B., Timin, E.N. & Rodionov, I.M. Responses to noradrenaline of tail arteries in hypertensive, hypotensive and normotensive rats under different regimenns of perfusion: role of the myogenic response, 331
Mackenzie, I.L. *see* Maw, G.J.
Maes, H.H. *see* Thomis, M.A.I.
Maganaris, C.N. & Maughan, R.J. Creatine supplementation enhances maximum voluntary isometric force and endurance capacity in resistance trained men, 279
Magyar, J. *see* Szigligeti, P.
Marchal, G. *see* Thomis, M.A.I.
Matthias, A. *see* Ye, J.-M.
Maughan, R.J. *see* Maganaris, C.N.
Maughan, R.J. *see* Strachan, A.T.
Maw, G.J., Mackenzie, I.L. & Taylor, N.A.S. Human body-fluid distribution during exercise in hot, temperate and cool environments, 297
McNurlan, M.A. *see* Gamrin, L.
Meigal, A.Y., Oksa, J., Hohtola, E., Lupandin, Y.V. & Rintamäki, H. Influence of cold shivering on fine motor control in the upper limb, 41
Mikhaleva, L.M. *see* Machkov, V.V.
Miyachi, M., Iemitsu, M., Okutsu, M. & Onodera, S. Effects of endurance training on the size and blood flow of the arterial conductance vessels in humans, 13
Miyake, Y. *see* Sugimoto, S.-I.
Monda, M., Sullo, A., De Luca, V. & Viggiano, A. Sucrose rich diet modifies thermogenic response to injection of muscimol into the posterior hypothalamus in the rat, 379
Morel, D.R. *see* Licker, M.
Murgia, M. *see* Schiaffino, S.

Nánási, P.P. *see* Szigligeti, P.
Nevill, M.E. *see* Bogdanis, G.C.
Noble, M. *see* Arlock, P.

Ohlson, M. *see* Sörensson, J.
Oksa, J. *see* Meigal, A.Y.
Okutsu, M. *see* Miyachi, M.
Olesen, O. *see* Saetre, S.S.
Onodera, S. *see* Miyachi, M.
Oshima, T. *see* Furukawa, M.
Östlund, E. *see* Sand, A.

Papp, Z. *see* Szigligeti, P.
Patterson, M.J., Cotter, J.D. & Taylor, N.A.S. Human sudomotor responses to heating and cooling upper-body skin surfaces: cutaneous thermal sensitivity, 289
Pequignot, J. *see* Ehrström, M.
Pequignot, J.-M. *see* Ehrström, M.
Pernow, J. *see* Gonon, A.T.
Pernow, J. *see* Wang, Q.-D.
Persson, A.E.G. *see* Clausen, T.

Rehfeld, J.F. *see* Saetre, S.S.
Rintamäki, H. *see* Meigal, A.Y.
Robertson, B.E. Inhibition of calcium-activated chloride channels by niflumic acid dilates rat cerebral arteries, 417
Rodionov, I.M. *see* Machkov, V.V.
Rosdahl, H., Samuelsson, A.-C., Ungerstedt, U. & Henriksson, J. Influence of adrenergic agonists on the release of amino acids from rat skeletal muscle studied by microdialysis, 349

Saetre, S.S., Andersen, N.J., Houe, T., Svendsen, P., Rehfeld, J.F., Olesen, O. & Schaffalitzky De Muckadell,

© 1998 Scandinavian Physiological Society

O.B. Regulation of porcine biliary secretion by secretin, 113
Samuelsson, A.-C. *see* Rosdahl, H.
Sand, A., Östlund, E., Andersson, E. & Fried, G. Endothelin-induced contractions in placental arteries is mediated by both ET_A-and ET_B-receptors, 227
Sasaki, H. *see* Furukawa, M.
Schaffalitzky De Muckadell, O.B. *see* Saetre, S.S.
Schiaffino, S., Serrano, A., Jerkovic, R., Di Lisi, R. & Murgia, M. Neural regulation of myosin gene expression in regenerating skeletal muscle, S11
Schutt, C.E. & Lindberg, U. Muscle contraction as a Markov Process I: energetics of the process, 307
Serrano, A. *see* Schiaffino, S.
Settergren, G., Angdin, M., Astudillo, R., Gelinder, S., Liska, J., Lundberg, J.O.N. & Weitzberg, E. Decreased pulmonary vascular resistance during nasal breathing: modulation by endogenous nitric oxide from the paranasal sinuses, 235
Shimizu, M. *see* Gonon, A.T.
Shimizu, M. *see* Wang, Q.-D.
Simonsen, E.B. *see* Voigt, M.
Sjöquist, P.-O. *see* Wang, Q.-D.
Skogvall, S., Arner, A. & Grampp, W. Capsaicin can abolish spontaneous tone in guinea-pig trachealis, 73
Sörensson, J., Ohlson, M., Lindström, K. & Haraldsson, B. Glomerular charge selectivity for horseradish peroxidase and albumin at low and normal ionic strengths, 83
Steen, J.T. *see* Ye, J.-M.
Stone-Elander, S. *see* Blomqvist, G.
Strachan, A.T. & Maughan, R.J. Platelet serotonin transporter density and related parameters in endurance-trained and sedentary male subjects, 165
Sugimoto, S.-I., Takenaka, K., Hirano, K., Miyake, Y. & Imaizumi, T. Analysis of blood pressure responses during exercise by logistic function curve in hypertension: effects of age, gender and physical training, 17
Sullo, A. *see* Monda, M.
Suzuki, H. *see* Furukawa, M.
Svendsen, P. *see* Saetre, S.S.
Szigeti, GY. *see* Szigligeti, P.
Szigligeti, P., Bányász, T., Magyar, J., Szigeti, GY., Papp, Z., Varró, A. & Nánási, P.P. Intracellular calcium and electrical restitution in mammalian cardiac cells, 139

Tajbakhsh, S. *see* Buckingham, M.
Takasaka, T. *see* Furukawa, M.
Takenaka, K. *see* Sugimoto, S.-I.
Tarasova, O.S. *see* Machkov, V.V.
Taylor, N.A.S. *see* Maw, G.J.
Taylor, N.A.S. *see* Patterson, M.J.
Tesch, P.A. *see* Gamrin, L.
Thomis, M.A.I., Beunen, G.P., Van Leemputte, M., Maes, H.H., Blimkie, C.J., Claessens, A.L., Marchal, G., Willems, E. & Vlietinck, R.F. Inheritance of static and dynamic arm strength and some of its determinants, 59
Thompson, J.M. *see* Lambert, G.W.
Timin, E.N. *see* Machkov, V.V.
Treede, R.-D. *see* Ellrich, J.
Turner, A.G. *see* Lambert, G.W.

Ungerstedt, U. *see* Rosdahl, H.
Uribe, A. *see* Zachrisson, K.

Valen, G. Preconditioning does not attenuate cardiac dysfunction after global ischaemia in the guinea-pig, 219
Van Leemputte, M. *see* Thomis, M.A.I.
Varró, A. *see* Szigligeti, P.
Vaz, M. *see* Lambert, G.W.
Venepally, P. *see* Buonanno, A.
Viggiano, A. *see* Monda, M.
Vlasova, M.A. *see* Machkov, V.V.
Vlietinck, R.F. *see* Thomis, M.A.I.
Voigt, M., Dyhre-Poulsen, P. & Simonsen, E.B. Modulation of short latency stretch reflexes during human hopping, 181

Wallin, B.G. *see* Lambert, G.W.
Wang, Q.-D., Gonon, A., Shimizu, M., Sjöquist, P.-O. & Pernow, J. Contribution of endothelin to the coronary vasoconstriction in the isolated rat heart induced by nitric oxide synthase inhibition, 325
Wang, Q-D. *see* Gonon, A.T.
Weis, J. *see* Buonanno, A.
Weitzberg, E. *see* Settergren, G.
Wernerman, J. *see* Gamrin, L.
Widén, L. *see* Blomqvist, G.
Willems, E. *see* Thomis, M.A.I.
Wohlfart, B. *see* Arlock, P.
Wolgast, M. *see* Broman, M.

Yamaya, M. *see* Furukawa, M.
Yamazaki, T. *see* Kitagawa, H.
Yaspelkis III, B.B., Castle, A.L., Farrar, R.P. & Ivy, J.L. Effect of chronic electrical stimulation and β-GPA diet on GLUT4 protein concentration in rat skeletal muscle, 251
Ye, J.-M., Steen, J.T., Matthias, A., Clark, M.G. & Colquhoun, E.Q. Effects of noradrenaline and flow on lactate uptake in the perfused rat hindlimb, 49
Yu, F. *see* Degens, H.

Zachrisson, K. & Uribe, A. Serotonin and neuroendocrine peptides influence DNA synthesis in rat and human small intestinal cells *in vitro*, 195
Zammit, P. *see* Buckingham, M.

© 1998 Scandinavian Physiological Society

Acta Physiol Scand 1998, **163**, 423–425

Subject index

Actin, 307
Action potential duration, 139
Adaptation, 13
Adenosine 3′,5′-cyclic monophosphate, 251
Adenosine triphosphate, 251
Adenosine, 103
Adenylate cyclase, 251
Adrenaline, 241, 349
Aerobic metabolism, 261
Airway smooth muscle, 73
Alpha adrenoreceptors, 209
α isoforms, 201
α_1-adrenoceptor, 241
α-adrenoceptor, 49
Amino acids, 349
Anaerobic, 261
Anaesthetized pig, 339
Antidiuresis, 93
Antidiuretic hormone, 93
Aorta, 13
Arachidonic acid, 73
Arousal, 385
Arterial hypertension, 331
Asphyxia, 385

Baroreflex, 209
Bicarbonate, 113
Bile, 113
Biochemical markers, 369
Biofeedback, 41
Blood flow, 25, 349
Blood pressure response, 17
Blood vessels, 227
Blood volume, 297
Body fluids, 297
Body temperature regulation, 289
Bovine kidney, 201
BQ-123, 227
BQ-788, 227
Brain, 155

Calcium current, 139
Calcium, 3
Calcium-activated chloride channels, 417
cAMP, 103
Capillary permeability, 83
Capsaicin, 73
Cardiac function, 219
Cardiac muscle, 139
CCK, 113
Central facilitation, 391
Central sudomotor drive, 289
Cerebral glucose oxidation, 403
CFTR, 103
Charge, 83
Chemomechanical transduction, 307
Chloride secretion, 103
Ciliary neurotrophic factor, 273
Clonidine, 155

CNTF receptor α, 273
Cold shivering, 41
Constant flow perfusion, 331
Constant pressure perfusion, 331
Convergence, 391
Cooling, 385
Creatine phosphate, 251
Creatine supplementation, 279
Creatine, 251
Cremaster, 25

Denervation, 241
Desipramine, 173
DNA synthesis, 195
Doppler, 13
Duodenal acidification, 113
Dynamic strength, 59

Echography, 13
Electrical restitution, 139
Electromyography, 41
Electronic autoradiography, 201
Endothelin, 131, 227, 325
Endurance capacity, 279
Endurance-trained, 165
ET_A receptor antagonist, 131
ET_A receptor, 121
ET_B receptor, 121
Ethanol, 349
Exercise flow, 13
Exercise test, 17
Exercise therapy, 17
Exercise, 297
Exocytosis, 173
Extracellular fluid, 297

Fatigue, 261
Fenn effect, 307
Ferret papillary muscle, 3
FHs-74 cells, 195
Flexor reflex, 391
Foetus, 385
Force output control, 41

Gadolinium, 331
Ganglion blockade, 155
Global ischaemia, 219
Glycolysis, 261
Guinea-pig heart, 219

Heat stress, 297
Heredity, 59
High energy phosphate, 251
Hindlimb unweighting, 273
Hoffmann reflex, 391
Horseradish peroxidase, 83
H-reflex, 181
Human hopping, 181

© 1998 Scandinavian Physiological Society

Humans, 17
[^{3}H]ouabain binding, 201
Hyperglycaemia, 403,
Hypertension, 17
Hypothermia, 241

IEC-6 cells, 195
Imagined training, 361
In vitro pharmacology, 121
Indomethacin, 73
Inorganic phosphate, 251
Instant Imager, 201
Interstitial fluid, 297
Intracellular calcium, 139
Intracellular fluid, 297
IRL-1620, 227
Ischaemia/reperfusion injury, 131
Isoform-specific antibodies, 201
Isometric strength, 279, 361
Isotope dilution, 155

K^+–ATPase, 201
Kidney glomerulus physiology, 83

Lactate transporter, 49
Liver, 113
L-NAME, 339
Locus coeruleus, 385
Logistic models, 17
LU 135 252, 131
Lymph drainage, 149

M. extensor digitorum longus, 33
M. soleus, 33
Meal, 113
Medial gastrocnemius, 181
Mesentery, 25
Microcirculation, 49
Microdialysis, 173, 349
Microneurography, 155
Microvascular pressure, 25
Middle ear epithelium, 103
Minipig, 113
Morphology, 13
Muscimol, 379
Muscle cross-sectional area, 59
Muscle protein synthesis, 369
Muscle spindle stretch velocity, 181
Muscular exercise, 149
Mx, 59
Myocardial potentiation, 3
Myogenic response, 331
Myosin, 307

Na/Ca exchange, 3
Na^+, 201
Na^+/SCFA absorption, 201
NANC-nerves, 73
Natriuresis, 93
Neuroendocrine peptides, 195
Newborn, 385
N^G-nitro-L-arginine, 325
Niflumic acid, 417
Nitric oxide, 227, 235, 325, 339
Nociception, 391
Noradrenaline, 173, 241, 385

ω-conotoxin, 173
OPC-21268, 93
OPC-31260, 93
Organ culture, 121
Oxygen consumption, 49, 339
Oxygen extraction, 339

Paranasal sinuses, 235
Path-analysis, 59
PET, 403
Pethidine, 241
pH, 261
Phosphocreatine, 261
Placenta, 227
Plasma volume, 297
Plasticity, 121
Platelet, 165
Pore size, 83
Posterior hypothalamus, 379
Prazosin, 241
Preconditioning, 219
Prostaglandins, 73
Pulmonary vascular resistance, 235

Rabbit heart, 139
Rat heart, 325
Rat, 83
Rats, 209
Receptor regulation, 121
Recovery, 261
Red blood cell aggregation, 25
Regional haemodynamics, 339
Regional hypotension, 331
Renal nerves, 241
Rumen epithelium, 201

Sarcoplasmic reticulum, 273
Secretin, 113
Serotonin transporter, 165
Serotonin, 195
Short latency stretch reflex, 181
Short-circuit current, 103
Skeletal muscle, 49, 349, 361
Skin temperature, 289
Skinned fibres, 33
Slack test, 33
Smooth muscle cells, 121
Soleus, 181
Spontaneous tone, 73
Sprinting, 261
Static strength, 59
Strength training, 279
Sucrose, 379
Sweating, 289
Sympathetic nerve, 173
Sympathetic nervous system, 209, 379

Tachykinins, 73
Tail artery, 331
Tendon compliance, 181
Tendon injury, 149
Tendon model, 181
Thermal sensitivity, 289
Thermogenesis, 379
Thermoregulatory muscle tonus, 41

© 1998 Scandinavian Physiological Society

3-methoxy-4-hydroxy-phenyl-ethylene glucol, 385
Tibialis anterior muscle, 391
Training, 361
Tropomyosin, 307
Troxerutine, 25
Twins, 59

Unloading, 369
Uptake$_1$, 173
Vascular smooth muscle, 417
Vasoconstriction, 277, 325
Vasopressin receptors, 93
Velocity, 13
$\dot{V}O_{2max}$, 13
Voltage clamp, 3
Voluntary activation, 361

Xenon washout, 149

© 1998 Scandinavian Physiological Society